## WHAT IS CLAIMED IS:

- 1 1. An arrangement for combining narrowband and broadband transport mechanisms in a communications network,
- 3 comprising:
- a first node, said first node configured to provide
- 5 call control functions and connection control functions; and
- a second node, said second node connected to said
- 7 first node by at least one link, said second node configured
- 8 to provide connection control functions, said second node
- 9 adapted to rely on said first node for call control
- 10 functions.
  - 1 2. The arrangement according to claim 1, wherein said
  - 2 first node is directly connected to said second node by the
  - 3 at least one link.
  - 1 3. The arrangement according to claim 1, wherein said
- 2 second node does not provide call control functions.

- 1 4. The arrangement according to claim 1, wherein said
- 2 first node includes a synchronous transfer mode (STM) switch,
- 3 and said second node include an asynchronous transfer mode
- 4 (ATM) switch.
- 1 5. The arrangement according to claim 1, wherein said
- 2 first node and said second node function together as a single
- 3 logical node within the communications network.
- 1 6. The arrangement according to claim 5, wherein the
- 2 single logical node comprises a hybrid switch.
- The arrangement according to claim 1, wherein said
- 2 first node is further connected to a time division
- 3 multiplexed (TDM) network.
- 1 8. The arrangement according to claim 1, wherein said
- 2 second node is further connected to a time division
- 3 multiplexed (TDM) network and an asynchronous transfer mode
- 4 (ATM) network.

- 1 9. The arrangement according to claim 1, wherein call
- 2 control functions comprise switching intelligence of a
- 3 telecommunications node, and connection control functions
- 4 comprise switching fabric of a telecommunications node.

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arrangement for combining narrowband and 1 10. An broadband transport mechanisms in a communications network, 2 comprising: 3 a first node, said first node configured to provide 4 call control functions and connection control functions; 5 a second node, said second node directly connected 6 to said first node by at least one link with no intervening 7 node or nodes, said second node configured to provide 8 connection control functions; and 9 wherein said second node is not configured to 10

provide call control functions.

- 1 11. A dual-node system for combining narrowband and
- 2 broadband transport mechanisms in a communications network,
- 3 comprising:
- 4 a first node, said first node including switching
- 5 intelligence and switching fabric;
- a second node, said second node connected to said
- 7 first node by at least one link, said second node including
- 8 switching fabric and adapted to transceive signaling
- 9 information over the at least one link; and
- 10 wherein said first node and said second node
- 11 function as a single logical node within the communications
- 12 network.
  - 1 12. The dual-node system according to claim 11, wherein
  - 2 the at least one link comprises a first link and a second
  - 3 link, each of the first link and the second link operating
  - 4 in accordance with an ethernet protocol.

- 1 13. The dual-node system according to claim 11, wherein
- 2 the signaling information received from said first node is
- 3 utilized by said second node in order to switch an incoming
- 4 call using the switching fabric thereof.
- 1 14. The dual-node system according to claim 11, wherein
- 2 said first node comprises a synchronous transfer mode (STM)
- 3 switch, and said second node comprises an asynchronous
- 4 transfer mode (ATM) switch.
- 1 15. The dual-node system according to claim 11, wherein
- 2 the single logical node comprises a hybrid switch.
- 1 16. The dual-node system according to claim 11, wherein
- 2 said first node is further directly connected to a time
- 3 division multiplexed (TDM) network, and said second node is
- 4 further connected to the TDM network and an asynchronous
- 5 transfer mode (ATM) network.

- 1 17. The dual-node system according to claim 16, wherein
- 2 the TDM network comprises at least one of a public switched
- 3 telephone network (PSTN), a public land mobile network
- 4 (PLMN), and an integrated services digital network (ISDN).

- 1 18. A method for combining narrowband and broadband
- 2 transport mechanisms in a communications network, comprising
- 3 the steps of:
- 4 providing a first node having call control
- 5 functionality and connection control functionality;
- 6 providing a second node having connection control
- 7 functionality;
- 8 connecting the first node to the second node; and
- 9 sharing, by the first node, the call control
- 10 functionality with the second node.
- 1 19. The method according to claim 18, further
- 2 comprising the step of:
- 3 transmitting, by the second node, incoming
- 4 signaling information related to an incoming call to the
- 5 first node.

- 1 20. The method according to claim 19, further
- 2 comprising the steps of:
- 3 receiving, by the first node, the incoming
- 4 signaling information related to the incoming call from the
- 5 second node;
- 6 executing, by the first node, call control
- 7 functionality with respect to the incoming signaling
- 8 information related to the incoming call to produce outgoing
- 9 signaling information;
- sending, by the first node, the outgoing signaling
- 11 information to the second node.
- 1 21. The method according to claim 20, further
- 2 comprising the steps of:
- 3 receiving, by the second node, the outgoing
- 4 signaling information from the first node;
- 5 switching, by the second node, the incoming call
- 6 responsive to the outgoing signaling information to thereby
- 7 forward an outgoing call from the second node.

- 1 22. An arrangement for handling calls in a
- 2 communications system, comprising:
- a first node, said first node including call
- 4 control logic for performing call control functionality, a
- 5 synchronous switch, and first connection control logic for
- 6 performing connection control functionality for said first
- 7 node; and
- a second node, said second node connected to said
- 9 first node and including an asynchronous switch and second
- 10 connection control logic for performing connection control
- 11 functionality for said second node, said second node adapted
- 12 to receive call control instructions from said first node for
- 13 switching communications via the asynchronous switch under
- 14 the control of the second connection control logic.
  - 1 23. The arrangement according to claim 22, further
  - 2 comprising at least one link, said at least one link
  - 3 connecting said first node and said second node.

- 1 24. The arrangement according to claim 23, wherein said
- 2 second node requests call control instructions from the call
- 3 control logic of the first node via said at least one link.
- 1 25. The arrangement according to claim 23, wherein said
- 2 second node forwards received signaling information for an
- 3 incoming call to the call control logic of the first node via
- 4 said at least one link without re-formatting the received
- 5 signaling information.

- 1 26. A system for combining narrowband applications with
- broadband transport, comprising:
- a first node, said first node including call
- 4 control logic for performing call control functionality, a
- 5 synchronous transfer mode (STM) switch, and first connection
- 6 control logic for performing connection control functionality
- 7 for said first node;
- a second node, said second node connected to said
- 9 first node and including an asynchronous transfer mode (ATM)
- 10 switch and second connection control logic for performing
- 11 connection control functionality for said second node, said
- 12 second node adapted to switch communications via the ATM
- 13 switch under the control of the second connection control
- 14 logic responsive to signaling information received from the
- 15 call control logic of said first node;
- an ATM network, said ATM network directly connected
- 17 to said second node for exchanging communications between
- 18 said ATM network and said second node; and

- a time division multiplex (TDM) network, said TDM
  network directly connected to said first node for exchanging
  communications between said TDM network and said first node.
  - The system according to claim 26, wherein said TDM network is also directly connected to said second node for exchanging communications between said TDM network and said second node.
  - 1 28. The system according to claim 26, further 2 comprising:
  - another TDM network, said another TDM network
    directly connected to said second node for exchanging
    communications between said another TDM network and said
  - 6 second node.